

MASTER OF THE DOMAIN...AND RANGE

I. For each of the following questions, give a reasonable domain and range. Then give a number that won't work in the domain and range and say why it won't work.

1. Words: Joe has an afterschool job where he earns \$6.50 an hour and never works more than 20 hours per week.

What is the independent variable? What is the dependent variable?

A reasonable domain and range

D:

R:

What values won't work? Why?

D:

R:

2. Algebraic: $y = \sqrt{x + 3}$

Give a reasonable domain and range for this problem.

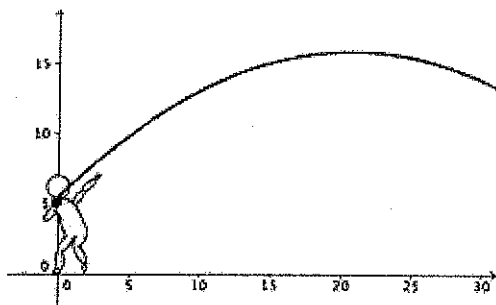
D:

R:

What values won't work? Why?

D:

R:



3. Graph:

Give a reasonable domain and range for the entire flight of the ball.

D:

R:

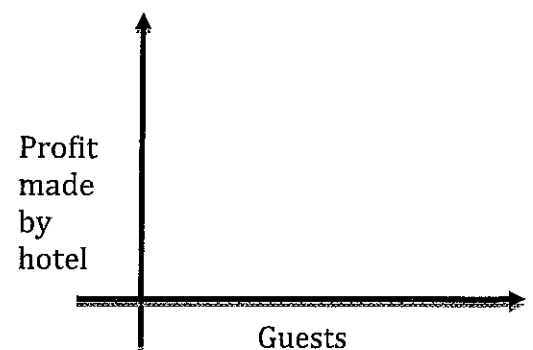
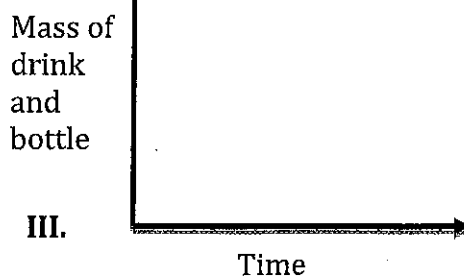
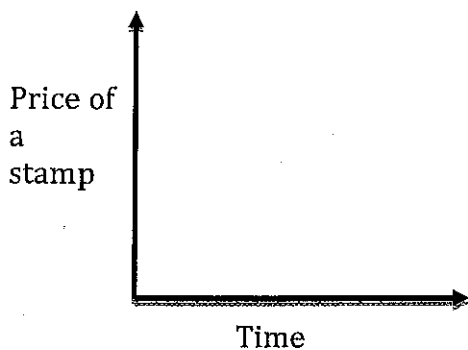
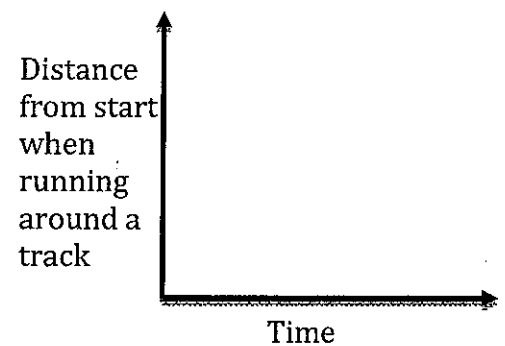
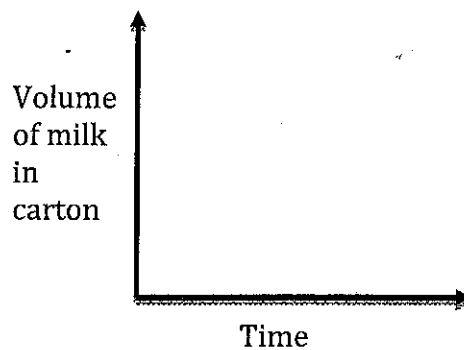
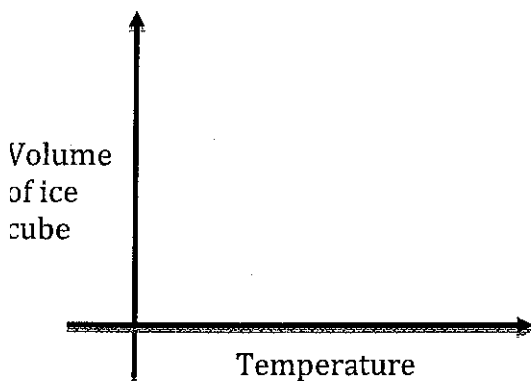
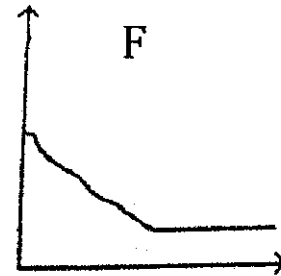
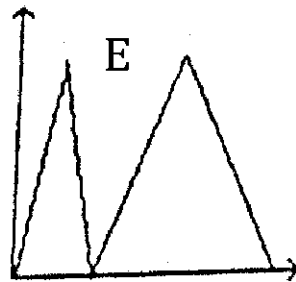
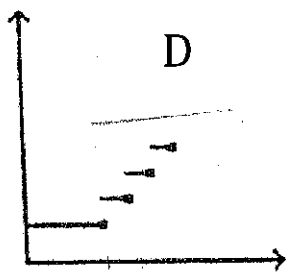
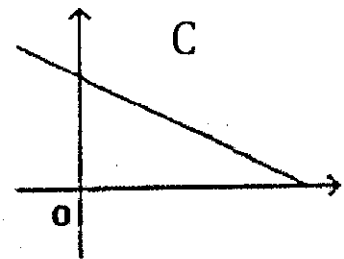
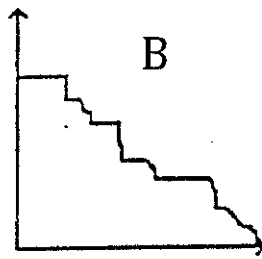
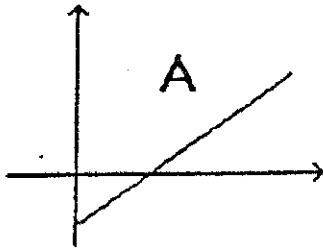
What values won't work? Why?

D:

R:

II. Using Domain and Range Strategically - Graph and Situation Matching

Match the six graphs (A-F) with the axes below that will fit each. Make sure you're paying attention to domain and range to help you.



III.